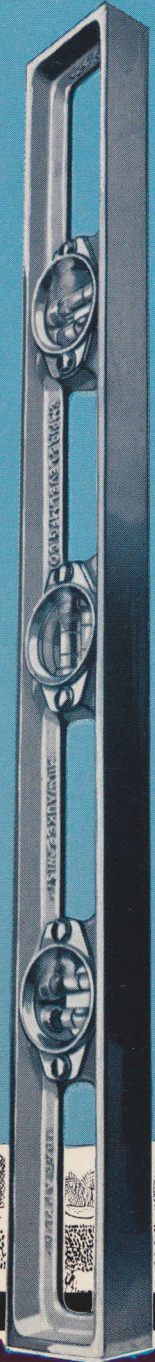


A MONUMENT TO AN IDEAL



CATALOG No. 640

EMPIRE LEVELS

EMPIRE LEVEL MFG. CO.
MILWAUKEE • WISCONSIN

and **TOOLS**

A MONUMENT TO AN IDEAL

SIGHTSEERS in the city of Washington are usually directed to a simple monument of stone rising out of the ground some five hundred and fifty feet. It is grandly impretentious, merely a gigantic shaft, yet its simple outlines express more clearly than volumes the regard of a great people for the ideals of a great man. It expresses the strength of unswerving loyalty to righteous faith.

• • •

SINCE the birth of Empire Levels, a little over four years ago,* we have attempted to adhere to a strict program of quality manufacturing as clearly defined as the outlines of the great Washington monument. It has been no easy task, especially during the tempestuous years just past. The temptations to cut quality have been great and the deviations we might have affected seemed of small importance. But slowly and surely our ideal has been shaping itself. Ever increasing numbers of Hardware men are helping us to raise the monument of dependable Level accuracy higher and higher into the air. Many are kind enough to tell us that the Empire Level is the finest tool of its kind in the land. When that opinion is universally accorded then we shall have realized our ideal.

* This ad first appeared in Hardware Age in 1922.

EXTREME

• Empire Levels were introduced in May, 1919—in the carpenter and cabinet shop of the late Henry Ziemann, a master carpenter and woodworker whose shop featured work of the finest quality. The spirit of this shop, inspired by a master workman, is the foundation on which Empire Levels have built an enviable reputation.

In 1922, the ideals of the Empire organization were first expressed in print. The illustration on the cover of this catalog is taken from the ad which appeared in the May, 1922 issue of Hardware Age. The copy accompanying this ad, which definitely expresses the objective of the Empire Level Mfg. Co., is reprinted to the left. This objective has never been sidetracked—it is imbued in the present organization with Harry J. Ziemann—son of the founder; who worked many years in the Carpenter Shop and Level Plant with his father, as its President.

The present Empire Level Plant concentrates practically all its efforts on levels. Equipment and working conditions are modern and efficient. A number of employees have been with the Company 20 years; and many of them 10 years or more. This loyalty on the part of our employees is reflected in the fine workmanship which appears in all Empire Levels. We are mindful of the fact, that the progress we have made would not have been possible without the support and loyalty of our customers.

ACCURACY LEVELS

A REAL GUARANTEE

Empire Products are guaranteed free from imperfections of material and defects in workmanship. The most rigid inspection and systematic check is given to both material and workmanship at the various stages of manufacture. Every precaution is taken to guarantee that nothing but mechanically perfect Empire Levels and tools are put on the market. Any defective tool will be repaired or replaced without charge. We cannot, however, assume responsibility for breakage where flaws do not appear, nor can we replace tools which have been abused, stamped with owner's name, or otherwise experimented upon. No dealer is authorized to make replacements for us. Articles claimed defective must be returned, charges prepaid, for our inspection.

LABELS

Empire labels are simple, practical, and distinctive in design, as well as attractive. Both jobber and dealer will appreciate the size and arrangement of the figures.

SELLING SERVICE THAT HELPS

Empire levels are backed by our aggressive advertising campaign that creates business for dealers. Convincing advertising in Contractor's, Carpenter's, Brick Mason's, Plumber's, Mechanical and Home-craft Publications is creating customers every day.

The free use of electrotypes for advertising and catalog purposes is extended to all our customers. We have a varied assortment of sizes to choose from, made from either wood cuts or half-tones. Our service also includes advertising folders and leaflets, show cards, window transfers, and display racks included with assortments (see last pages).

SHIPPING INSTRUCTIONS

In ordering please give full and explicit directions for shipment, and they will be carefully followed. If no shipping instructions are given we will use our best judgment in forwarding shipment. All goods are sent at risk of purchaser after we have delivered articles in good order to the forwarders.

CHANGES

We are often asked to make slight changes in the design or finish of some particular tool. In most cases it is impractical for us to do this. Changes, however slight, necessitate special work. Empire levels are made under a highly organized and well regulated manufacturing process which enables us to produce the highest possible quality of merchandise at competitive prices. Any deviations from the routine would have a decided reaction on production costs and would reflect on the low prices which we endeavor to maintain at all times.

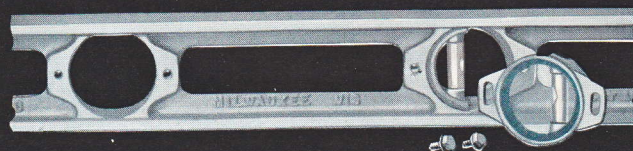
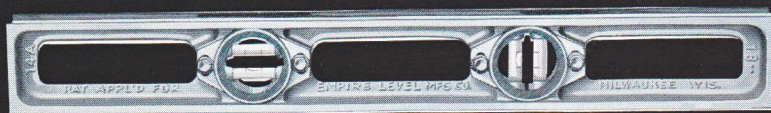
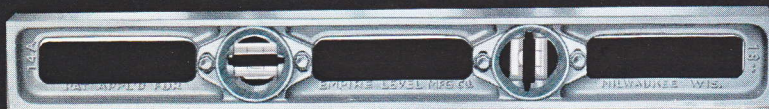
EMPIRE LEVEL MANUFACTURING CO.

MILWAUKEE, WISCONSIN, U. S. A.



ALUMINUM LEVELS

for the Millwright, Carpenter, Plasterer, Mason



Empire aluminum levels are made of special Aluminum Alloy, nonwarping, with sufficient yield to prevent the level from bending or breaking under ordinary use. Castings with blow holes and porosity are rejected. The frames have been designed to give the most strength with a minimum of weight. Large hand grips contribute to ease of handling. Edges and sides of frames are precision machined so as to give the user extreme

1

1—ADJUSTABLE—This level was introduced in 1922, and over 200,000 have been sold to quality workmen throughout the world. Interchangeable vial holders are independently removable for quick repair—Dependable accuracy assured—Highly polished edges—Frame section $2\frac{1}{4}$ " wide x $1\frac{3}{8}$ " thick.

24"—Wt. $2\frac{1}{4}$ lbs. ea. 28"—Wt. $2\frac{5}{8}$ lbs. ea.
26"—Wt. $2\frac{3}{8}$ lbs. ea. 30"—Wt. $2\frac{3}{4}$ lbs. ea.

2

2—ADJUSTABLE—2 plumbs, 2 levels—Otherwise same as No. 1—Independently interchangeable vial holders—Highly polished edges—Frame section $2\frac{1}{4}$ " wide x $1\frac{3}{8}$ " thick. 18" long, Wt. $1\frac{3}{4}$ lbs. ea.

20—MILLWRIGHTS ADJUSTABLE aluminum level—V groove for shafting—2 plumbs, 2 levels—Polished edges—Frame section $2\frac{1}{4}$ " wide x $1\frac{3}{8}$ " thick.

12" length—Wt. $1\frac{3}{8}$ lbs. ea.
18" length—Wt. $1\frac{3}{4}$ lbs. ea.

20

155—2 levels, 2 plumbs and 1 45° glass—A very convenient level—Polished edges—Frame section $1"$ x $2\frac{1}{8}"$ x $18"$. Wt. 1 lb. ea.

154—2 levels, 2 plumbs—Light, strong frame, carefully machined—Frame section $1"$ thick x $2\frac{1}{8}"$ wide x $18"$ long—Wt. 1 lb. ea.

155

153—ADJUSTABLE—Excellent tool for marble and tile workers who use their level as a straight edge—Has extra ribbed reinforcements—Six No. 67 interchangeable vial cases afford easy and quick repair of broken glasses—Highly polished edges—Frame section $2\frac{3}{4}"$ wide x $1\frac{3}{8}"$ thick x $42"$ long. Wt. $3\frac{1}{4}$ lbs. ea.

Above levels packed one in a box.

6 and 7 VIAL HOLDERS

The Patented Empire Interchangeable Vial Holder affords an easy and quick means of repairing broken level glasses. The illustration on the left shows how two of these holders are independently mounted in the same opening. They slip into the frame from opposite sides and are held by substantial machine screws. Two cases form a symmetrical unit of double level or plumb glasses that is absolutely dust proof and immovable. Each holder can be rotated independent of the other. The No. 6 holder (for levels) and No. 7 holder (for plumbs) can be used for Nos. 1, 2 and 20 levels.

No. 6 for levels—Weight each $1\frac{1}{2}$ oz.

No. 7 for plumbs—Weight each $1\frac{1}{2}$ oz.
(Packed one in a box)

154

6 & 7

153

accuracy. White sights, most conveniently spaced for easy reading, are sealed against moisture and dust by heavy protecting glasses and trimmed with metal rings which prevent the putty from breaking loose. Like all precision tools, paint is eliminated from the working surfaces. Good appearance is obtained by clean castings and fine workmanship. The best aluminum levels have polished edges.

151-E—ADJUSTABLE—2 plumbs, 2 levels and 2-45° glasses, or 4 plumbs and 2 levels (optional)—Interchangeable vial cases provide for quick repair of broken glasses—Vial Case unit (No. 67) can be used for level, plumb or 45° glass—This level recommended for particular mechanics—Edges highly polished—Frame section 1 3/32" x 2 1/4".

18" length—Wt. 1 3/4 lbs. ea.

24" length—Wt. 2 lbs. ea.

28" length—Wt. 2 1/4 lbs. ea.

30" length—Wt. 2 1/2 lbs. ea.

11—Our finest solid set aluminum level—4 plumbs, 2 levels—Very strong frame—Highly polished edges—Frame is 2 1/4" wide x 1 1/16" thick.

18" length—Wt. 1 1/4 lbs. ea.

24" length—Wt. 1 3/4 lbs. ea.

26" length—Wt. 1 7/8 lbs. ea.

28" length—Wt. 2 1/8 lbs. ea.

30" length—Wt. 2 1/4 lbs. ea.

156-E—High grade aluminum level—4 plumbs, 2 levels—Precision machined—Polished edges. Frame section 1" x 2 1/4".

24" length—1 5/8 lbs. ea.

26" length—1 3/4 lbs. ea.

28" length—2 lbs. ea.

30" length—2 1/8 lbs. ea.

500—Strong frame—4 plumbs, 2 levels—Highly polished edges—Frame section 1" x 2-5/32". 24" length—Wt. ea. 1 1/2 lbs.

501—Exceptional quality at low price—4 plumbs, 2 levels—Die cast frame has ribbed reinforcements accurately machined frame measures 1" x 2-5/32".

24" length—Wt. 1 3/8 lbs.

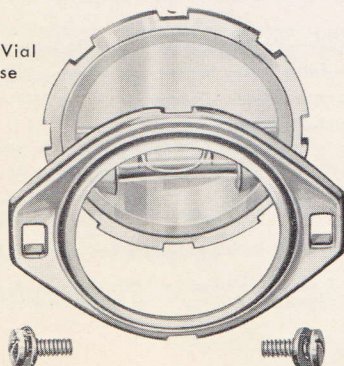
28" length—Wt. 1 7/8 lbs.

Above levels packed one in a box.

67 Vial Case for Empire Nos. 151 and 153—Adjustable Aluminum Levels afford an easy and quick means of repairing broken level glasses right on the job—without the expense and loss of time involved in sending level to factory for repair. They can be positioned for 45°, plumb, or level. There is sufficient movement in the slotted plate to permit adjusting the vial a few degrees either way from these three positions. Each case contains one vial and protecting glass. Cover plate holds it immovable. Two cases make a complete sight. Supplied with Ground Vial on special order. 67—Wt. ea. 1 oz. Packed one in a box.

E numbers used in 1000-E level deal.

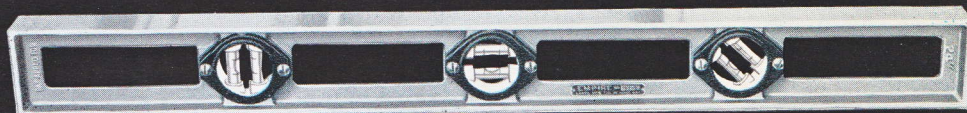
67 Vial Case



ALUMINUM LEVELS

for the Millwright, Carpenter, Plasterer, Mason

151



11



156



500



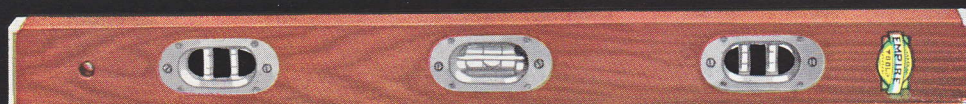
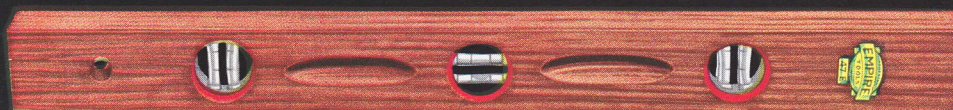
501



Like Empire Levels

WOOD LEVELS...

for Carpenter, Plasterer and Home Work Shop



★ Empire Wood Levels are made of selected straight grain lumber, which has been slowly air dried on sticks to a definite moisture content. Tough preservative finishes are used to seal the wood against moisture. These precautions guard against warping. Edges on all Empire Wood Levels are carefully machined parallel and straight to very close limits. This accounts for their extreme accuracy. A level with carelessly machined edges

380

380—Northern Cork White Pine Stock—2 levels, 2 plumbs—Natural finish varnished sides, red enameled edges—Cats eye vials—Very attractive—Frame $1\frac{1}{8}$ " x $2\frac{3}{8}$ ".

24"—Wt. ea. $1\frac{1}{4}$ lbs. 28"—Wt. ea. $1\frac{3}{8}$ lbs.

381

381—Northern Cork White Pine Stock—2 levels, 2 plumbs—Lustrous walnut finish, blue and gold trim—Cats eye vials—Frame measures $1\frac{1}{8}$ " x $2\frac{3}{8}$ ". 24"—Wt. $1\frac{1}{4}$ lbs.

38-E—Northern Cork White Pine—2 levels, 2 plumbs—Red enameled finish, green trim—Frame $2\frac{3}{8}$ " x $1\frac{1}{8}$ ".

18"—Wt. 1 lb.; 24"—Wt. $1\frac{1}{4}$ lbs.

28"—Wt. $1\frac{3}{8}$ lbs.

38

47-E—Carpenter's Walnut level—2 levels, 4 plumbs—Natural varnish finish, red trim—Our finest solid set Carpenter's wood level—Frame is $2\frac{3}{8}$ " wide x $1\frac{1}{8}$ " thick. 18" length has 2 plumbs and 2 levels and weighs $1\frac{1}{8}$ lbs. each.

24"—Wt. ea. $1\frac{1}{2}$ lbs. 28"—Wt. ea. $1\frac{3}{4}$ lbs.

47

49—Adjustable Walnut Level—4 plumbs, 2 levels—Lipped aluminum end plates—Natural lacquer finish—Six adjustable vial holders afford easy repairs and precision adjustment—Our best Carpenter's level—Frame measures $2\frac{3}{8}$ " wide x $1\frac{1}{8}$ " thick.

24"—Wt. ea. $1\frac{7}{8}$ lbs. 28"—Wt. ea. $2\frac{1}{8}$ lbs.

26"—Wt. ea. 2 lbs. 30"—Wt. ea. $2\frac{1}{4}$ lbs.

49

66—Walnut top level—1 plumb, 1 level—V-shaped finger grips—Natural lacquer finish—Frame section $2\frac{3}{8}$ " wide x $1\frac{1}{8}$ " thick. Very durable.

12"—Wt. $\frac{7}{8}$ lb.

24"—Wt. $1\frac{1}{2}$ lb.

16"—Wt. 1 lb.

26"—Wt. $1\frac{5}{8}$ lb.

18"—Wt. $1\frac{1}{8}$ lb.

28"—Wt. $1\frac{3}{4}$ lb.

30"—Wt. $1\frac{7}{8}$ lb.

66

123—Walnut top level—Adjustable vials—Extra heavy bronze end plates—Natural lacquer finish—Frame is $1\frac{1}{8}$ " x $2\frac{3}{8}$ "—All metal parts are brass.

24"—Wt. ea. $2\frac{1}{4}$ lbs.

26"—Wt. ea. $2\frac{3}{8}$ lbs.

28"—Wt. ea. $2\frac{5}{8}$ lbs.

30"—Wt. ea. $2\frac{3}{4}$ lbs.

123

All levels in this group packed one in a box.

E numbers used in 1000-E level deal.

Dependable Workmen

cannot be set accurately. Empire level vials are made of extra heavy tubing to reduce breakage to a minimum. These sensitive vials with well defined marks, are set in white sights to afford quick and easy reading. All styles, excepting top sight levels, have heavy protecting glasses to seal sights from dust and moisture. The sealing putty is protected by attractive colored metal rings.

200-E—Top plate level—Northern Cork White Pine Stock, with top level and plumb—Aluminum trim—Red enameled finish—Frame is $2\frac{3}{8}$ " wide x $1\frac{1}{8}$ " thick.

18"—Wt. 1 lb. ea. 26"—Wt. $1\frac{3}{8}$ lb. ea.
24"—Wt. $1\frac{1}{4}$ lb. ea. 28"—Wt. $1\frac{1}{2}$ lb. ea.
30"—Wt. $1\frac{5}{8}$ lb. ea.

400—Northern White Pine—2 levels, 2 plumbs—Red finish—Frame $1\frac{1}{8}$ " x $2\frac{3}{8}$ ".

18"—Wt. $\frac{3}{4}$ lb. 24"—Wt. $1\frac{1}{8}$ lb.
28"—Wt. $1\frac{1}{4}$ lbs.

30—Plumb and Level—Red finish—Blue trim—Frame section $1\frac{1}{8}$ " x $2\frac{3}{8}$ ".

24"—Wt. $1\frac{1}{8}$ lbs. 28"—Wt. $1\frac{1}{4}$ lbs.

31—Household level—1 level, 1 plumb—Stock $1\frac{1}{4}$ " x $2\frac{1}{2}$ "—Red lacquer finish—Black trim—Length 18"—Weight $\frac{7}{8}$ lb.

36—Brick Mason's Walnut Level—2 levels, 1 plumb and 1-45° glass—Natural varnish finish—Frame is $1\frac{1}{8}$ " x $2\frac{1}{4}$ ".

12"—Wt. $\frac{3}{4}$ lb. 15"—Wt. 1 lb.
18"—Wt. $1\frac{1}{8}$ lbs.

666-E—Narrow Walnut top level—1 level, 1 plumb—Brass trim—Natural varnish finish—2" wide x $\frac{7}{8}$ " thick.

12"—Wt. $\frac{1}{2}$ lb. 16"—Wt. $\frac{5}{8}$ lb.
18"—Wt. $\frac{3}{4}$ lb.

12-E—Everready Level—Plumb and Level—12" long, $1\frac{3}{4}$ " wide, $\frac{7}{8}$ " thick—Lacquered green—Aluminum top plate—Wt. ea. $\frac{3}{8}$ lb.

46—Walnut "HANDEE" Level—1 plumb, 1 level—Natural lacquer finish—Frame section $1\frac{1}{8}$ " x $2\frac{1}{4}$ " x 12"—Wt. ea. $\frac{3}{4}$ lb.

466—Northern Pine Stock—Stained walnut finish—Otherwise same as No. 46. 12" long—Weight $\frac{1}{2}$ lb.

* Note: All levels listed in this group, except Nos. 30 and 31, are packed one in a box. Nos. 30 and 31 are packed 12 in a carton.

E numbers used in 1000-E level deal.

WOOD LEVELS...

for Carpenter, Plasterer and Home Work Shop

200



400



30



31



36



666



12



46



Like Empire Levels

WOOD LEVELS . . . for Mason, Bricklayer, Tile Setter, Marble Worker



Empire Mason Levels have 4 plumbs and 2 levels, so arranged to afford high and low plumb readings, and can be used on either edge or either end up. Frames are made of choice straight grain lumber, slowly and thoroughly air dried on sticks to a definite moisture content. Edges of frames are carefully machined parallel and straight to a close tolerance, which enables the level to be reversed edge for edge without a deviation in the reading . . . essential for speed with accuracy. Vials are made of extra heavy tubing to reduce breakage to a minimum. They are set in

601

601—Northern Cork White Pine—Natural finish varnished sides, red edges—Very attractive—Made in 48" length only—Weight each 1 $\frac{7}{8}$ lbs.

51—Northern Cork White Pine—Maroon enameled finish with attractive gray finger grips.

42"—Wt. ea. 1 $\frac{5}{8}$ lbs. 48"—Wt. ea. 1 $\frac{7}{8}$ lbs.

52—Same as No. 51, but fitted with end plates.

42"—Wt. ea. 1 $\frac{3}{4}$ lbs. 48"—Wt. ea. 2 lbs.

**51
52**

600-E—48"—Red finish. Otherwise same as No. 51.

58—Honduras Mahogany Stock—Natural waterproof varnish finish. Exceptionally attractive.

42"—Wt. ea. 2 $\frac{1}{4}$ lbs. 48"—Wt. ea. 2 $\frac{1}{2}$ lbs.

59—Same as No. 58, but fitted with lipped aluminum end plates.

42"—Wt. ea. 2 $\frac{3}{8}$ lbs. 48"—Wt. ea. 2 $\frac{5}{8}$ lbs.

**58
59**

54—Adjustable, Northern Cork White Pine Stock. Patented Empire Adjustable Vial Cases afford easy and quick repair of broken glasses—Lipped aluminum end plates—Maroon finish, gray finger grips.

42"—Wt. ea. 2 $\frac{1}{4}$ lbs. 48"—Wt. ea. 2 $\frac{1}{2}$ lbs.

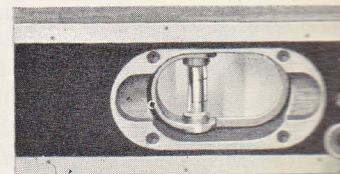
55—Adjustable, Honduras Mahogany Stock—Independently adjustable vial cases afford easy and quick repair of broken glasses—Lipped aluminum end plates—Natural finish with waterproof varnish.

42"—Wt. ea. 2 $\frac{1}{2}$ lbs. 48"—Wt. ea. 2 $\frac{3}{4}$ lbs.

54

E numbers used in 1000-E level deal.

All Empire Mason Levels are packed one in a box.



55

INTERCHANGEABLE VIAL CASES For Empire Wood Levels

The No. 8 and 9 (oblong) patented interchangeable vial cases, fit all Empire Adjustable Wood Levels. Two cases interlock to form a complete unit of double level or plumb glasses, with each case independently adjustable. The adjustment is simple and convenient when it is necessary to replace broken level glasses. The vials are machine

Particular Masons Like

WOOD LEVELS... for Mason, Bricklayer, Tile Setter, Marble Worker

metal sockets and a special cement to eliminate movement of adjustment. All Empire vials have distinct black marks drawn straight and true by automatic equipment. White sights are sealed against moisture and dust by heavy protecting glasses. The sealing putty is protected by attractive colored metal rings, which add to the appearance of the level. Empire Mason Levels are coated with Enamel, Spar Varnish or Waterproof Lacquer, thus sealing and guarding the wood against moisture and warping. All frames are $1\frac{1}{8}$ " thick x $2\frac{3}{8}$ " wide.

50—Aluminum bound edges and ends—Northern Cork White Pine Stock—Stained Mahogany and Varnished.

42"—Wt. ea. $2\frac{1}{4}$ lbs. 48"—Wt. ea. $2\frac{1}{2}$ lbs.

50



620—Brass bound edges and ends—Northern White Pine Stock—Lustrous walnut stained finish protected with Spar Varnish.

42"—Wt. ea. $3\frac{1}{2}$ lbs. 48"—Wt. ea. $3\frac{7}{8}$ lbs.

620



62—Laminated 5-piece frame of Walnut, Pine and Mahogany, held together with water resistant glue—Lipped aluminum end plates—Durable natural varnish finish.

42"—Wt. ea. $2\frac{1}{4}$ lbs. 48"—Wt. ea. $2\frac{1}{2}$ lbs.

63—Three piece construction—Pine center, Mahogany edges—Lipped aluminum end plates—Natural Varnish finish—A very light and durable level.

42"—Wt. ea. $1\frac{7}{8}$ lbs. 48"—Wt. ea. $2\frac{1}{8}$ lbs.

53—Adjustable—Northern Cork White Pine Stock—Aluminum bound edges and ends—Individually adjustable vial cases afford easy and quick repair of broken parts—Maroon enamel finish with gray finger grips.

42"—Wt. ea. $2\frac{3}{8}$ lbs. 48"—Wt. ea. $2\frac{3}{4}$ lbs.

62
63



56—Adjustable—Honduras Mahogany—Natural Varnish finish—Otherwise same as number 53. Empire's finest mason level for most particular workmen.

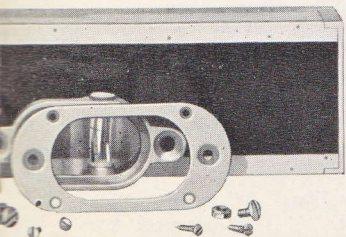
42"—Wt. ea. $2\frac{5}{8}$ lbs. 48"—Wt. ea. 3 lbs.

53



E numbers used in 1000-E level deal.

All Empire Mason Levels are packed one in a box.



56



marked to secure distinct uniform lines. The case proper is fastened to a metal plate by two bolts. Plate is held securely in the frame by four wood screws. The two units, which interlock each other, are inserted from opposite sides of the level.

No. 8—One-half unit—For levels. Wt. ea. $1\frac{1}{2}$ oz.

No. 9—One-half unit—For plumbs. Wt. ea. $1\frac{1}{2}$ oz.

Packed one in a box.

See Empire Mason Levels

POCKET LEVELS... and SPECIALTIES

Play Safe with



28 — DISPLAY



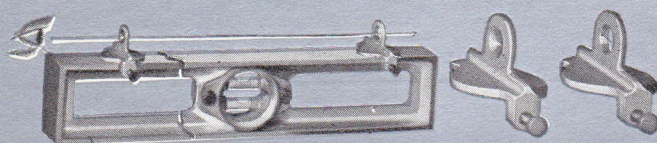
28

28—Made of Chrome Aluminum. Measures $\frac{1}{2}$ " x $\frac{1}{2}$ " x 5" long. No sharp corners to tear pockets. Proved level vial with $\frac{1}{2}^\circ$ and 1° pitch graduations—Colored fluid. Grooved bottom and sides for use on pipes and shafts. Spring clip holds level firmly in pocket. Wrapped in cellophane. Packed six on a display card or six in a box. Weight each 2 oz. Display card 1 lb.

80—These level sights can be used on any Empire Level excluding pocket and line levels. They are cast of aluminum and accurately machined to locate the correct centers. By the use of these sights, an object or point of considerable distance away, can be conveniently and accurately leveled in relation to a given point. The sights are easily detached when not in use. Packed one set in a box. Weight 1 oz. per set.

82—This case can be very easily set into a straight edge. It is only necessary to bore a $1\frac{3}{4}$ " hole through the stock, slip in the case and fasten same by wood screws through the slotted ears, which have sufficient play for adjustment. The double glasses enable the straight edge to be used with either edge or end up. The case is sealed from dust and moisture by heavy cover glasses.

Packed one in a box. Weight each 3 oz.



80

LEVEL GLASSES

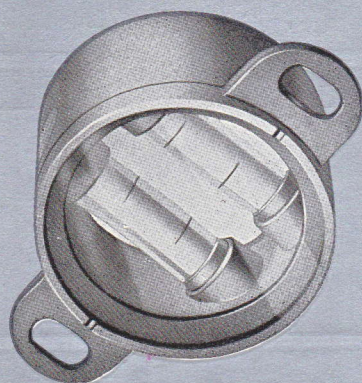
Our proved level glasses are made in our own factory, of extra heavy special formula glass. This insures a strong flexible glass which is necessary to absorb the many shocks imposed on a level. By an improved method the crown of the glass is made uniform throughout its length, and it is just sufficient to stabilize the bubble, as too much crown contributes to slow action. All vials are precisely machine marked. Imperfect vials are detected automatically.

For very sensitive work we recommend the ground vial. The internal surface of these vials is hollow ground to form a near frictionless surface as well as the arc that is necessary to stabilize the bubble. The marks are finely etched to precisely indicate the position of bubble.

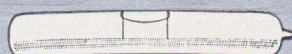
13—Proved Vials—Individual sizes from $\frac{3}{4}$ " to 4"—1 dozen in a box.

14—Ground Vials—Lengths $1\frac{1}{4}$ ", $1\frac{1}{2}$ " and 2"—1 dozen in a box.

Approximate Weight per dozen—3 ozs.



82



13



14

FILE AND SOLDERING HANDLES (Patented)

Made of birch with die cast metal ferrule which prevents handle from splitting and is guaranteed not to loosen.

- | | |
|-------------------------|-----------------------|
| 100—For 5-7" Saw Files, | Wt. per gross 10 lbs. |
| 101—For 4" Files, | Wt. per gross 8 lbs. |
| 102—For 6-8" Files, | Wt. per gross 17 lbs. |
| 103—For 8-10" Files, | Wt. per gross 22 lbs. |
| 104—For 12-16" Files, | Wt. per gross 30 lbs. |
| 105—For 16-20" Files, | Wt. per gross 33 lbs. |

(Above packed three dozen in a carton)

110—For all Soldering Coppers Wt. per doz. 4 lbs. (Packed one dozen in a box.)



Soldering Handles



File Handles

Your Sure with

TORPEDO LEVELS..

Line Levels, Level Parts and Specialties

26 Torpedo—Aluminum Alloy; patented hollow, reinforced construction; grooved bottom. Includes level vial with $\frac{1}{2}^{\circ}$ and 1° pitch, also plumb and 45° vial. All vials have colored fluid. Polished top plate, satin finished sides. Will not tear or bulge the pocket. Ideal for pipe fitters, inspectors, fixture assemblers. Size $9'' \times 1\frac{1}{4}''$. Weight each 4 oz. *Wt. Carded— $2\frac{1}{8}$ lbs. Boxed $1\frac{3}{4}$ lbs.

27 Torpedo—Same as above but lighter construction. No pitch graduation on level, and plain fluid in vials. Size $8\frac{1}{4}'' \times \frac{1}{2}'' \times 1\frac{1}{8}''$. Weight each $3\frac{1}{2}$ oz. *Wt. Carded—2 lbs. Boxed— $1\frac{5}{8}$ lbs.

44 Torpedo—Walnut stock—Level, plumb and 45° glass—Proved vials. Polished aluminum top plate. No sharp corners to tear pockets, finished natural, 9" long. Weight each 3 oz. *Wt. Carded— $1\frac{1}{2}$ lbs. Boxed— $1\frac{1}{8}$ lbs.

26-44 ASSORTMENT—Three each Nos. 44 and 26. Mounted on a card as illustrated. Weight per card— $1\frac{3}{4}$ lbs

***NOTE:** Nos. 26, 27 and 44 are cellophane wrapped, and packed six on a card or six in a display box.

25—LINE LEVEL—3" long. Weighs only $\frac{1}{2}$ oz. Hexagon aluminum body, polished. Proved vials with colored fluid. Hooks so designed to prevent level from falling off line. Flat bottom for surface use. Wrapped in cellophane. Packed six in a box or six on a card as illustrated. Weight carded— $\frac{1}{4}$ lb. Weight per box— $\frac{1}{4}$ lb.

24—This small vest pocket level is made of hexagon aluminum tubing, highly polished. Accurately set level vial is filled with colored fluid. Wrapped in cellophane and packed six in a box. 3" long—Wt. each $\frac{1}{2}$ oz. Wt. per box— $\frac{1}{4}$ lb.



26



44



26-44 — DISPLAY



DISPLAY BOX
for TORPEDOES



LINE LEVEL DISPLAY



25



24

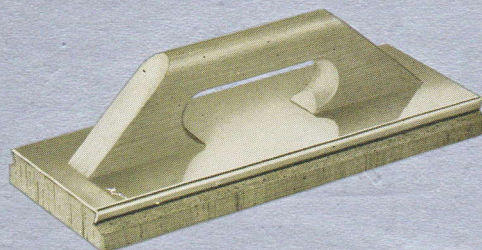
PLASTERERS' TOOLS

Hawks, Floats, Paddles, Darbies and Tool Bags

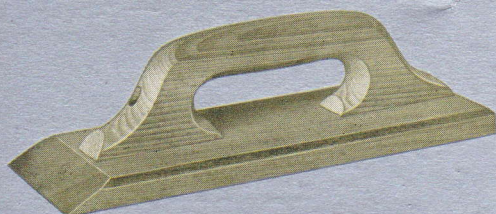
Do Better Work



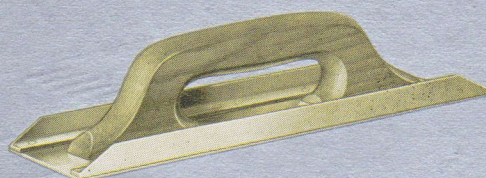
72 and 73



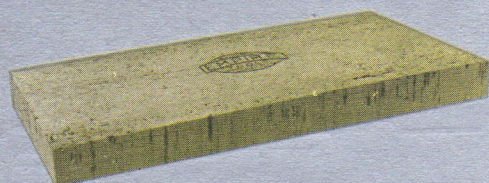
76



79 and 795



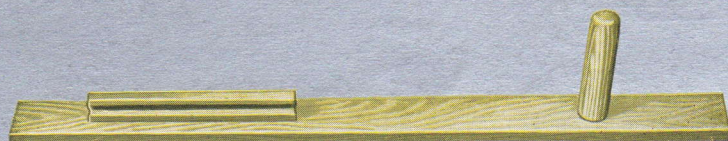
93



765



766



74 and 745

72 Cross Grained Float: An unexcelled tool for floating fine cement work. The cross grained base is made of choice selected White Pine and is constructed so that it will not warp. The handle is carefully shaped and securely keyed to the base of the float by a wedge shaped panel strip, the grain of which is opposite to that of the float proper. Size $4\frac{1}{2}'' \times 11''$. Packed 1 dozen in a box. Weight per box—9 lbs.

73 Standard Wood Float: This float is made to meet the demand for a cheaper tool than the Cross Grained Float. It is identical in appearance, but it lacks the panel strip and the Cross Grained feature. Size $4\frac{1}{2}'' \times 11''$. Packed 1 dozen in a box. Weight per box—9 lbs.

76 Renewable Cork Float: This float has very long life because the cork section can be replaced after it has worn away. The upper section consists of a conveniently shaped handle which is securely fastened to an aluminum base. The base is turned on the side edges to hold the cork bottom secure. The cork compresses in aluminum base to insure a tight fit. Size $4\frac{1}{2}'' \times 11''$. Packed $\frac{1}{2}$ dozen in a box. Wt. per box—6 lbs.

77 Cork Inserts: Fit No. 76 float. Size $4\frac{1}{2}'' \times 11''$. Open Stock—Weight per dozen—4 lbs.

795 Mahogany Angle Float: This is a very useful tool for plasterers. It serves the purpose of the ordinary wood float and paddle. The carefully shaped handle is made of pine and the base is of mahogany. Size $4'' \times 11''$. Packed $\frac{1}{2}$ dozen in a box. Weight per box— $6\frac{3}{4}$ lbs.

79 Pine Angle Float: Is of the same design and construction as No. 795, however, the base is of pine instead of mahogany. Packed 1 dozen in a box. Weight per box—9 lbs.

93 Aluminum Angle Float: Cast aluminum. Unexcelled for smooth plaster finish. Constructed to fill a definite need. The comfortable hand-shaped grip and the correct angle of construction insures greater ease and an increased efficiency in work. Packed six in a box. Weight per box—5 lbs.

765 Cork Float Unhandled. Selected for quality and smooth finish.

$12'' \times 4\frac{1}{2}'' \times 1\frac{1}{4}''$ —Wt. per doz. $4\frac{1}{2}$ lbs.

$12'' \times 5'' \times 1\frac{1}{4}''$ —Wt. per doz. 5 lbs.

Open Stock.

766— $\frac{3}{4}''$ layer of selected cork casein glued to $\frac{1}{2}''$ layer of pine. Shaped handle.

$10\frac{1}{2}'' \times 4''$ —Wt. per Box $5\frac{1}{4}$ lbs.

$12'' \times 5''$ —Wt. per Box 6 lbs.

$\frac{1}{2}$ dozen in a box.

74 Darbies: Made of seasoned Northern Cork White Pine, free from sap. Darbies are of durable construction, soaked in linseed oil. Handles are securely fastened to the base and will not loosen. Size $3\frac{1}{2}'' \times 42''$. Open stock. Weight each $1\frac{1}{4}$ lbs.

745 Darbies: Same as No. 74 but with detachable handle, having threaded sleeve which screws on threaded disk, same as used on our Aluminum Hawk. Handle cannot possibly come loose. Open stock. Weight each $1\frac{3}{8}$ lbs.

Empire Light Weight

with Empire Tools

PLASTERERS' TOOLS

Hawks, Floats, Paddles, Darbies and Tool Bags

70—Aluminum Hawk. Light—sturdy—strong. No rivets or handle to loosen. Counter-sunk aluminum stud held by detachable brass ferruled handle. Parts will not corrode. Deep scoring prevents mortar from sliding. Supplied with sponge rubber callus protector. Packed six in a box.

Size 13" x 13" —Wt. each 1½ lbs.

Size 13½" x 13½" —Wt. each 1⅝ lbs.

78—Callus Protectors for Hawks. Made of soft sponge rubber, to protect the hand. Packed 1 doz. in a box. Weight per box—½ lb.

PADDLES

90—Pine with Metal Edge. Wt. per doz. 2¼ lbs.

91—Walnut—Wt. per doz. 2¾ lbs.

92—Walnut with Metal Edge. Wt. per doz. 3¼ lbs.
(Packed ½ doz. in a box.)

75-E—Float Handles: Made of choice Cork White Pine. Ends are drilled to accommodate a wood screw. Packed 1 dozen in a box. Wt. per box—2½ lbs.

1100—Mason's Tool Bag: Made from one piece No. 10 White Duck, riveted to heavy steel frame. Strong leather welt seams. Bottom of two thicknesses of duck, reinforced with heavy binder board, and protected by steel studs. Large inside pocket. Lock and key. All sizes 5½" wide.

2000—Leather Bottom Mason's Bag: Same as No. 1000, but has leather covered bottom and sides to prevent wear. All sizes 5½" wide.

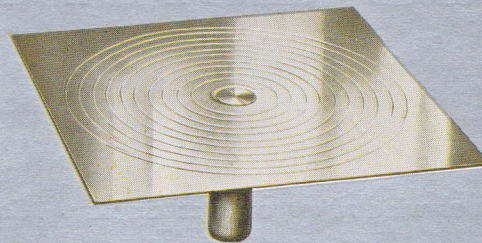
LENGTH	HEIGHT	WT. PER DOZEN	
1100 and 2000	1100 and 2000	1100	2000
12"	10½"	23 lbs.	28 lbs.
14"	13½"	27 "	30 "
16"	13½"	30 "	32 "
18"	15½"	34 "	40 "
20"	15½"	39 "	43 "
22"	15½"	42 "	46 "
24"	15½"	45 "	48 "

Packed 1 dozen in a carton.

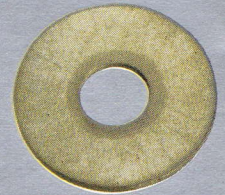
5000—Craftsman Tool Bag: Made from one-piece No. 4 Olive Drab Duck, riveted to heavy steel frame. Leather welt seams cannot rip. Bottom of two thicknesses of duck, reinforced with heavy binder-board, and protected by steel studs and leather corners. Two large inside pockets. Lock and key. Strong adjustable web shoulder strap included. 8" wide, 10" high.

Length	Wt. each
16"	3¼ lbs.
18"	3½ lbs.
20"	4 lbs.

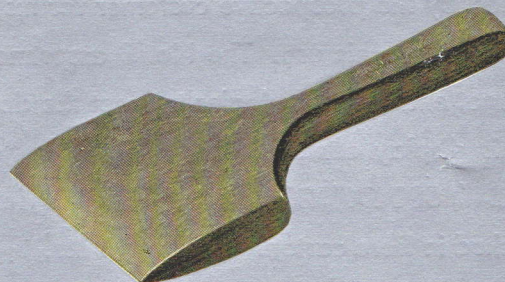
Packed 2/3 dozen in a carton.



70



78



90-91-92



75



1100



2000



5000

Tools Save Time

No. 800 Level Display Creates Sales . . WITH FREE STAND

No. 800 An ideal window or counter display. Contains 8 fast selling, popular levels. This attractive display will help increase your level sales, for levels are displayed to best advantage, ready to be picked up and examined by the prospective customer for his easy choice of price and type most suited to his use. The No. 8 assortment contains levels in every price range, enabling the dealer to meet the demand of all types of customers. This display contains one each Nos. * 44, * 27, 666-16", 155-18", 380-24", 500-24", 200-24" and 151-24" levels. Deal complete, with stand, packed in fibre carton. Weight 11 lbs.

* Cannot be removed without a screwdriver.





No. 350 No. 350 Empire Level Deal: Permanent display value for counter or window. Contains three fast selling levels, with practical, compact display stand free. Here's a FAST TURNOVER assortment of Empire "Extreme Accuracy" Levels that offers ready sales in every price range, with a good profit margin to the Dealer on a LOW INVESTMENT. Levels are carefully selected for a wide range of Customer Appeal. No slow movers. Every level, a popular leader in its price bracket, offering utility for all occasions. No. 350 Deal contains one each Nos. 380-24", 156-24", and 200-24" levels. Packed complete in a fibre carton. Wt. 5 lbs. per deal.



FOR YOUR SHOW WINDOW

THIS colorful level display in your window sells more levels. The 1000-E Level Deal includes a varied stock of Empire's best sellers, enabling you to meet the demand of carpenter, mason, homecrafter and other mechanics. Included in the deal are the above levels and display rack; also one extra No. 12-E, 666-E, 200-E and 38-E. No. 1000-E Level Deal. Packed one in a carton. Weight 18 lbs.